

*B*

1 29. (Added) A milk product derived from an animal raised by feeding said animal a feed material, wherein said feed material comprises cultured microbial organisms containing omega-3 highly unsaturated fatty acid in an amount effective to increase the content of omega-3 highly unsaturated fatty acid in said milk product.

*Sub C*

1 30. (Added) The milk product of Claim 29, wherein said cultured microbial organisms have a higher average amount of omega-3 highly unsaturated fatty acid than the average for naturally-occurring organisms of the same genus.

3 31. (Added) The milk product of Claim 29, wherein said milk product is selected from the group consisting of milk, cheese and butter.

4 32. (Added) The milk product of Claim 29, wherein said animal is selected from the group consisting of cows, sheep, goats, bison, buffalo, antelope, deer and camels.

5 33. (Added) The milk product of Claim 29, wherein said animal is selected from the group consisting of cows, sheep and goats.

*6*  
34. (Added) The milk product of Claim *29*, wherein said feed material is protected from degradation in a rumen of said animal.

*7*  
35. (Added) The milk product of Claim *34*, wherein said feed material is coated with a protein.

*8*  
*B2 Counted.*  
36. (Added) The milk product of Claim *29*, wherein said feed material comprises an element selected from the group consisting of *Thraustochytriales*, omega-3 highly unsaturated fatty acid extracted from *Thraustochytriales*, and mixtures thereof.

*Sub C2*  
37. (Added) The milk product of Claim 36, wherein said feed material comprises microorganisms of the genus *Thraustochytrium* and/or *Schizochytrium* in whole cell form.

38. (Added) The milk product of Claim 36, wherein said *Thraustochytriales* is obtained by a direct fermentation of grain, corn syrup or agricultural/fermentation byproducts by *Thraustochytrium* and/or *Schizochytrium*.

*11*  
39. (Added) The milk product of Claim *38*, wherein said grain is selected from the group consisting of corn, sorghum, rice, wheat, oats, rye and millet.  
*10*

*12* 40. (Added) The milk product of Claim *36*, wherein said feed material further comprises a dry ground grain.

*13* 41. (Added) The milk product of Claim *40*, wherein said feed material contains less than about 40% water.

*B2 contd.* *14* 42. (Added) The milk product of Claim *40*, wherein said feed material is prepared by extrusion.

*15* 43. (Added) The milk product of Claim *29*, wherein said feed material contains omega-6 highly unsaturated fatty acid in an amount effective to increase the content of omega-6 highly unsaturated fatty acid in said milk product.

*16* 44. (Added) The milk product of Claim *29*, wherein said milk product is consumable by humans.

*17* 45. (Added) A milk product derived from an animal raised by feeding said animal a feed material comprising an element selected from the group consisting of Thraustochytriales, omega-3 highly unsaturated fatty acid extracted from Thraustochytriales, and mixtures thereof in an amount effective to increase the content of omega-3 highly unsaturated fatty acid in said milk product.

*Sub C<sup>3</sup>*  
46. (Added) The milk product of Claim 45, wherein said feed material comprises microorganisms of the genus *Thraustochytrium* and/or *Schizochytrium* in whole cell form.

*B7  
B7A  
cont'd.*  
47. (Added) The milk product of Claim 45, wherein said *Thraustochytriales* is obtained by a direct fermentation of grain, corn syrup or agricultural/fermentation byproducts by *Thraustochytrium* and/or *Schizochytrium*.

*20*  
48. (Added) The milk product of Claim *47*, wherein said grain is selected from the group consisting of corn, sorghum, rice, wheat, oats, rye and millet.

*21*  
49. (Added) The milk product of Claim *45*, wherein said milk product is selected from the group consisting of milk, cheese and butter.

*22*  
50. (Added) The milk product of Claim *45*, wherein said animal is selected from the group consisting of cows, sheep and goats.

*Sub C<sup>4</sup>*  
51. (Added) A milk product derived from an animal raised by feeding said animal a feed material comprising an element selected from the group consisting of *Thraustochytrium*, *Schizochytrium*, omega-3 highly unsaturated fatty acid extracted from said *Schizochytrium* and/or said